

HEATER FOR VEHICLE

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Abstract

Provided is a heater for a vehicle using a positive temperature coefficient (PTC) device. The heater for a vehicle has a plurality of PTC devices 20 which generate heat by supplying power. A plurality of receiving plates 13 for preventing a short circuit which have through-holes for accommodating the PTC devices 20 are disposed in parallel in a frame 11; a plurality of radiating fins 15 for facilitating heat exchange are disposed between the receiving plates 13; and combined one side terminals (for example, negative terminals) of each PTC device 20 are connected to a power supply, and the other side terminals (for example, positive terminals) of each PTC device 20 are connected to a power supply by an individually operated switch 31. In addition, plates 17 and 18 are disposed between the receiving plates 13 and the radiating fin 15. The receiving plates 13 have a height larger than those of the radiating fin 15 and the plates 17 and 18 so that the PTC devices 20 do not short to each other due to adhesion of impurities.

Therefore, it is possible to prevent a short circuit of the PTC devices due to adhesion of impurities, reduce the number of electric wires, and effectively control temperature and power consumption by separately driving the PTC devices.